

Serial No.: 10/770,901

Amendments to the Specification:

Please replace paragraph 4 beginning on page 4 of the specification (first paragraph under SUMMARY) at line 19 with the following paragraph:

This invention addresses the limitations described above and provides in various embodiments of the invention a machine which allows coaxial, concentric cutting of an object to produce various cylinders or cylindroids from a common source object. In one embodiment, the invention comprises a longitudinal support member, a transverse support member coupled to the longitudinal support member. The transverse support member including having directly or indirectly mounted thereon a headstock member. The headstock member includes a headstock spindle member ~~mounted~~ coupled to the headstock member. The headstock member includes a drive spindle rotationally ~~mounted~~ coupled to the headstock spindle member and ~~adapted~~ aligned to rotationally retain one end of an object to be concentrically cut. The invention further includes a tailstock member having a tailstock spindle member mounted to the tailstock member.

Please replace paragraph 1 beginning on page 5 at line 1 with the following paragraph:

The tailstock spindle member includes a tailstock spindle rotationally ~~mounted~~ coupled to the tailstock spindle member and ~~adapted~~ aligned to retain an opposite end of the object. A drive assembly in rotational communication with the drive spindle is provided to rotate the drive spindle around a common rotational axis with the tailstock spindle. In an embodiment of the invention, the drive assembly comprises a variable speed electric motor having a shaft-mounted pulley which drives a second pulley mounted on the drive spindle by a belt.

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Please replace paragraph 3 beginning on page 5 at line 15 with the following paragraph:

In a related embodiment of the invention, an accessory table is ~~mounted~~ coupled to the longitudinal support member, ~~on the transverse support member~~. The accessory table allows additional cutting, roughing or finishing equipment to engage the object.

Please replace paragraph 4 beginning on page 5 at line 18 with the following paragraph:

In ~~a vertically-oriented~~ another embodiment of the invention, ~~The~~ the concentric coaxial cutting machine is configured ~~similar to a large drill press~~. In ~~this vertical embodiment of the invention~~, such that the ~~transverse~~ longitudinal support member comprises ~~a vertical~~ an elongated conduit in which the headstock member forms a ~~horizontal~~ transverse base ~~mounted~~ coupled to one end of the ~~vertical~~ elongated conduit. The headstock spindle member comprises a ~~horizontal~~ rotary table ~~mounted~~ coupled on to the ~~horizontal~~ transverse base in which the drive spindle is centered. The ~~horizontal~~ rotary table may be provided with a plurality of T-slots and an attachable multi-jawed chuck.

Please replace paragraph 5 beginning on page 5 at line 26 with the following paragraph:

In ~~this vertically-oriented~~ a related embodiment of the invention, the tailstock member comprises a repositionable ~~horizontal~~ transverse arm ~~mounted~~ coupled at to an opposite end of the ~~vertical~~ elongated conduit.

Please replace paragraph 1 beginning on page 6 at line 1 with the following paragraph:

The tailstock member is ~~vertically~~ longitudinally repositionable along a substantial length of the ~~vertical~~ elongated conduit and ~~horizontally~~ rotationally repositionable about a radius of the ~~vertical~~ elongated conduit. A clamp is mounted to a bottom of the tailstock member to securely maintain the tailstock member in a desired position.

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Please replace paragraph 2 beginning on page 6 at line 5 with the following paragraph:

In various ~~vertical-oriented~~ embodiments of the invention, both the first chain saw and tailstock spindle member are ~~mounted~~ coupled to the ~~horizontal~~ transverse arm of the tailstock member. This allows either or both the first chain saw and tailstock spindle member to be further ~~vertically and horizontally~~ repositionable by adjustment of a set of jackscrew drives. In various related embodiments of the invention, the first chain saw is replaceable with another cutting, grinding or finishing tool and/or may be pivotally ~~mounted~~ coupled to the ~~horizontal~~ transverse arm such that the chain of the chain saw engages the object at an angle to the common rotational axis.